

FATIMA JINNAH WOMEN UNIVERSITY DEPARTMENT OF SOFTWARE ENGINEERING

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SEMESTER

V-A

COURSE
CLOUD COMPUTING LAB

SUBMITTED TO
ENGR. SHAHZAD NAZIR

"LAB 12"

INSTALL CONFIGURE GLANCE ON OPENSTACK ROCKY UBUNTU 18 STEP 1

CREATE DATABASE GLANCE

```
fjwu@controller:~$ sudo su -
root@controller:~# mysql
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 30
Server version: 10.1.48-MariaDB-Oubuntu0.18.04.1 Ubuntu 18.04
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
MariaDB [(none)]>
```

```
root@controller:~# mysql
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 30
Server version: 10.1.48-MariaDB-Oubuntu0.18.04.1 Ubuntu 18.04
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
MariaDB [(none)]> GRANT ALL PRIVILEGES ON glance.* TO 'glance'@'localhost' IDENT IFIED BY 'glanceDBPass';
Query OK, 0 rows affected (0.00 sec)
MariaDB [(none)]>
```

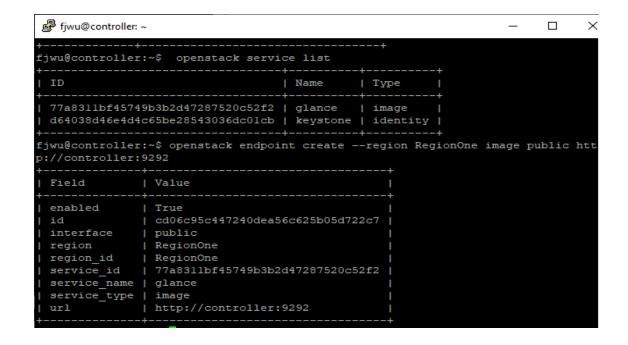
```
fariaDB [(none)]> GRANT ALL PRIVILEGES ON glance.* TO 'glance'@'%' IDENTIFIED BY
  'glanceDBPass';
Query OK, 0 rows affected (0.01 sec)
fariaDB [(none)]>
```

```
IMariaDB [(none)]> exit

Bye
root@controller:~#
```

ENTERED THE PASSWORD "GLANCEDBPASS"

🎒 fjwu@controller: ~		_		×
fjwu@controller:~\$	source admin-openro			1
ce Command 'openstack sudo snap install o sudo apt install o	openstack user createdomain defaultpass not found, but can be installed with: openstackclients # version xena, or oython-openstackclient oython3-openstackclient er:~\$ sudo apt install openstackclients	word-pr	ompt gl	an
2024-01-02T12:05:27 openstackclients (y	sudo snap install openstackclients +05:00 INFO Waiting for automatic snapd restar oga/stable) yoga from Canonical√ installed openstack user createdomain defaultpassw d:		ompt gla	ìn
Field	Value			
+	+			
CREATE SERVICE				
fjwu@controller:~\$	openstack role addproject serviceuser	glance	admin	
Pedia OpenStack In +	:ue :ue :SkillPedia OpenStack Image :e :8311bf45749b3b2d47287520c52f2	criptio	n "TheS	kil



CREATE ENDPOINTS

ENDPOINT PUBLIC

```
fjwu@controller:~$ openstack endpoint create --region RegionOne image internal h
ttp://controller:9292
             | Value
 Field
       -----+-
             | True
 enabled
              | dff8cbe02c7c4c2abab35b2cadecfa2d
 interface
              | internal
              | RegionOne
 region
 region id
              | RegionOne
 service id
              | 77a8311bf45749b3b2d47287520c52f2
 service name | glance
 service type | image
               | http://controller:9292
```

ENDPOINT INTERNAL AND ADMIN

```
fjwu@serverl:~$ openstack endpoint create --region RegionOne image internal http://serverl:9292
              | Value
 Field
 enabled
             | 7c7c9646cf73450a9d942e3fa66c7ee2
  interface
               | internal
              | RegionOne
 region
  region id
              | RegionOne
 service_id | 74c7c6347d244960ad0ea28fc4c83b5e
 service name | glance
 service_type | image
              | http://serverl:9292
fjwu@serverl:~$ openstack endpoint create --region RegionOne image admin http://serverl:9292
 Field
             | Value
 enabled
              | a0667c34676846f4a0427986da217141
 interface
              | admin
              | RegionOne
 region
 region_id
               | RegionOne
 service_id | 74c7c63
service_name | glance
              | 74c7c6347d244960ad0ea28fc4c83b5e
 service_type | image
               | http://server1:9292
fjwu@serverl:~$
```

CHECK ENDPOINTS

```
fjwu@controller:~$ openstack endpoint list
| ID
                                | Region
                                          | Service Name | Service Type | E
nabled | Interface | URL
| 72135fc1412d4b6b9a7bla57df754c8d | RegionOne | keystone
                                                                        | T
                                                         | identity
rue | admin | http://controller:5000/v3/ |
| 9d89952a6cfc4c849c846253c76f0502 | RegionOne | glance
                                                                        | T
                                                          | image
rue | admin | http://controller:9292
| b66a79d3b1294cbfbcb558ceb776b2c9 | RegionOne | keystone | identity
                                                                        l T
rue | internal | http://controller:5000/v3/ |
| bcda4d4a7dda4958a13c42b1f83da081 | RegionOne | keystone | identity
                                                                        | T
rue | public | http://controller:5000/v3/
| cd06c95c447240dea56c625b05d722c7 | RegionOne | glance | image
                                                                        I T
rue | public | http://controller:9292
| dff8cbe02c7c4c2abab35b2cadecfa2d | RegionOne | glance
                                                          | image
     | internal | http://controller:9292
```

INSTALL GLANCE

```
fjwu@controller:~$ sudo su -
root@controller:~# apt install glance
```

GO TO THIS FILE AND MAKE THESE CHANGES

```
# Related Options:

# * config_file

# (string value)

flavor = keystone

# Name of the paste configuration file.

# Provide a string value representing the name of the paste

# configuration file to use for configuring piplelines for

# server application deployments.

#
```

```
[keystone_authtoken]

# From keystonemiddleware.auth_token

# Complete "public" Identity API endpoint. This endpoint should not be a
# "admin" endpoint, as it should be accessible by all end users. Unauthe
# clients are redirected to this endpoint to authenticate. Although this
# endpoint should ideally be unversioned, client support in the wild var
# you're using a versioned v2 endpoint here, then this should *not* be t
# endpoint the service user utilizes for validating tokens, because norm
# users may not be able to reach that endpoint. (string value)
# Deprecated group/name - [keystone_authtoken]/auth_uri
#www_authenticate_uri = http://controller:5000
# DEPRECATED: Complete "public" Identity API endpoint. This endpoint sho
# be an "admin" endpoint, as it should be accessible by all end users.
# Unauthenticated clients are redirected to this endpoint to authenticate
# Although this endpoint should ideally be unversioned, client support i
# wild varies. If you're using a versioned v2 endpoint here, then this
```

AFTER THAT, GO TO THIS FILE AND MAKE CHANGES

root@controller:~# vim /etc/glance/glance-registry.conf

```
# endpoint the service user utilizes for validating tokens, because
# users may not be able to reach that endpoint. (string value)
# Deprecated group/name - [keystone_authtoken]/auth_uri
#www_authenticate_uri = \text{None}>

www_authenticate_uri = http://controller:5000
auth_url = http://controller:5000
memcached_servers = controller:11211
auth_type = password
project_domain_name = Default
user_domain_name = Default
project_name = service
username = glance
password = 2003

# DEPRECATED: Complete "public" Identity API endpoint. This endpor
# be an "admin" endpoint, as it should be accessible by all end user.
```

```
# Authentication type to load (string value)
# Deprecated group/name - [keystone_authtoken]/auth_plugin
#auth_type = <None>

auth_type = password
project_domain_name = Default
user_domain_name = Default
project_name = service
username = glance
password = glancePass
# Config Section from which to load plugin specific options (string value)
#auth_section = <None>
```

```
# This option is scheduled for removal in the Stein developmen

# cycle.

#stores = file,http

stores=file,http

#DEPRECATED:

# The default scheme to use for storing images.

#

# Provide a string value representing the default scheme to us

# storing images. If not set, Glance uses ``file`` as the default

# scheme to store images with the ``file`` store.
```

```
# This option is deprecated against new config option
# ``default_backend`` which acts similar to ``default_store`` config
# option.
#
# This option is scheduled for removal in the Stein development
# cycle.
#default_store = file
# DEPRECATED:
# Minimum interval in seconds to execute updating dynamic storage
# capabilities based on current backend status.
#
# Provide an integer value representing time in seconds to set the
```

```
# * ``filesystem_store_datadirs``
# * ``filesystem_store_file_perm``
#
# (string value)
#filesystem_store_datadir = /var/lib/glance/images
filesystem_store_datadir = /var/lib/glance/images
#
# List of directories and their priorities to which the filesystem
# backend store writes images.
#
# The filesystem store can be configured to store images in multiple
# directories as opposed to using a single directory specified by the
```

ON SERVER 1

```
ERROR 1045 (2000). Hocess defiled for user glance @ controller (dsing password. T
fjwu@controller:~$ mysql –uglance –p –h controller
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 33
Server version: 10.1.48—MariaDB—OubuntuO.18.04.1 Ubuntu 18.04
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
```

```
root@controller:~# su -s /bin/sh -c "glance-manage db_sync" glance
/usr/lib/python2.7/dist-packages/oslo_db/sqlalchemy/enginefacade.py:1352: OsloDB
DeprecationWarning: EngineFacade is deprecated; please use oslo_db.sqlalchemy.en
ginefacade
    expire_on_commit=expire_on_commit, _conf=conf)
2024-01-03 22:10:20.820 4451 INFO alembic.runtime.migration [-] Context impl MyS
QLImpl.

Upgraded database to: rocky_contract02, current revision(s): rocky_contract02
```

```
Upgraded database to: rocky_contract02, current revision(s): rocky_contract02
INFO [alembic.runtime.migration] Context impl MySQLImpl.
INFO [alembic.runtime.migration] Will assume non-transactional DDL.
Database is synced successfully.
```

GO TO DATABASE AND CHECK THE TABLES

```
MariaDB [(none)]> use glance;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with –A
Database changed
MariaDB [glance]> show tables;
 Tables_in_glance
  alembic_version
  image_locations
  image_members
  image_properties
  image_tags
  images
  metadef_namespace_resource_types
  metadef_namespaces
  metadef_objects
  metadef_properties
 metadef_resource_types
metadef_tags
  migrate_version
  task_info
  tasks
15 rows in set (0.00 sec)
MariaDB[glance]> _
```

RESTART THE SERVICES

```
root@controller:~# service glance-registry restart
root@controller:~# ^C
root@controller:~# systemctl enable glance-registry
Synchronizing state of glance-registry.service with SysV service script with /li
b/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable glance-registry
root@controller:~#
```

```
root@controller:~# service glance-api restart
root@controller:~# systemctl enable glance-api
Synchronizing state of glance-api.service with SysV service script with /lib/sys
temd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable glance-api
root@controller:~#
```

DOWNLOAD THE CIRROS IMAGE

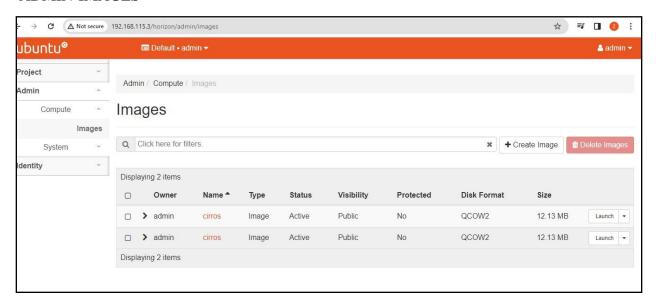
```
fjwu@controller:~$ source admin-openrc
fjwu@controller:~$ wget http://download.cirros-cloud.net/0.4.0/cirros-0.4.0-x86_
64-disk.img
--2024-01-03 22:18:22-- http://download.cirros-cloud.net/0.4.0/cirros-0.4.0-x86_
64-disk.img
Resolving download.cirros-cloud.net (download.cirros-cloud.net)... 69.163.176.18
3, 2607:f298:6:a014::c3e:9bd6
Connecting to download.cirros-cloud.net (download.cirros-cloud.net)|69.163.176.1
83|:80... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://github.com/cirros-dev/cirros/releases/download/0.4.0/cirros-0.4.0-x86 64-disk.img [following]
```

VERIFY IT

RUN THE FOLLOWING COMMAND. OPENSTACK IMAGE CREATE "CIRROS"

OPEN OPENSTACK DASHBOARD

ADMIN-IMAGES



INFO OF IMAGE

